

Energy Education and Low Cost Measures

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June 8, 2006

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Energy Education and Low Cost Measures

- Historically, energy efficiency was something we did to the home
- Energy education was something that may happen along the way
- Today, most weatherization program require energy education
- Energy Education is not a substitute for energy efficiency
- May provide immediate help to people who cannot be weatherized
- May provide an avenue/pool for future energy efficiency

What is Energy Education?

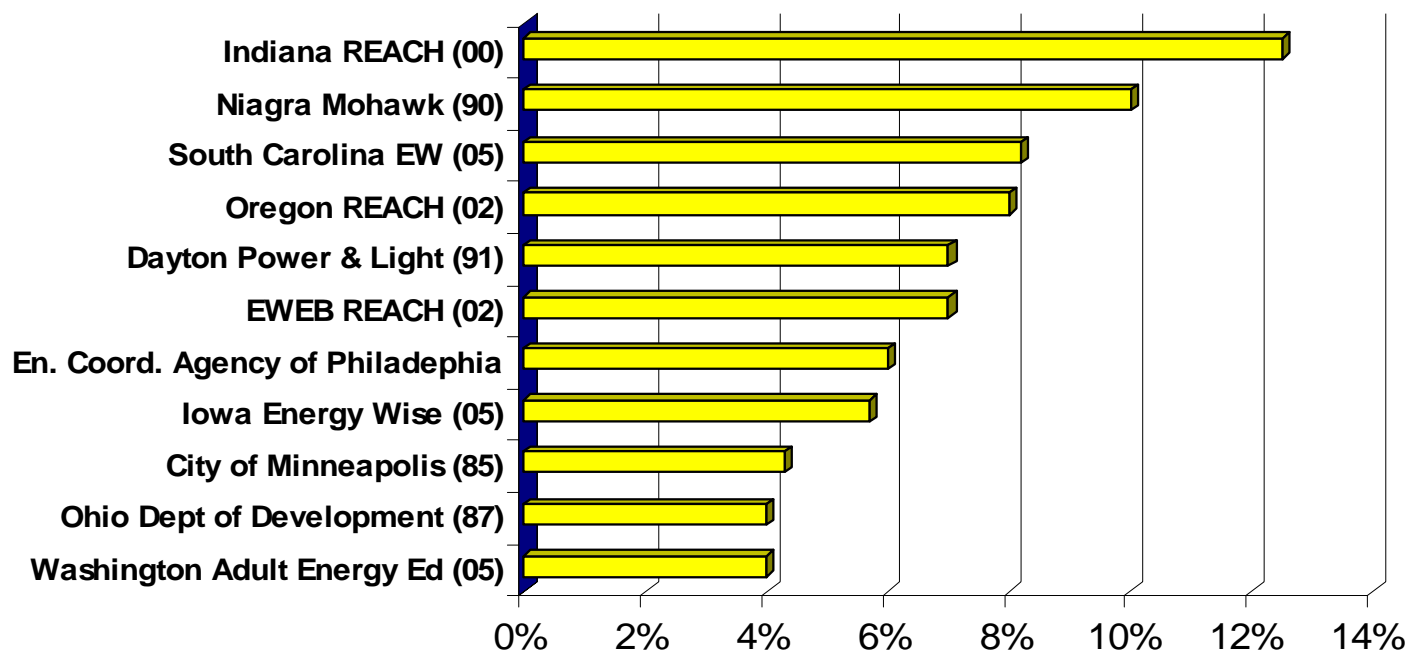


- Education means different things to different people
 - It ranges from leaving a brochure at the home to an intensive multi-tiered approach with follow up and feedback
 - Low levels of savings (0%) are associated with minimal efforts, and high levels of savings are associated (14%) with intensive efforts
 - Noteworthy programs delivered energy education either through in-home sessions or through workshops

Range of Savings



Savings as a Percentage of Total Consumption



Evaluation Approaches



- PRISM/Pooled Regression evaluations
- “Deemed” savings based on information from the participants
- When savings are less than 10% of the total consumption, hard to see in bills

Stand Alone Program Elements

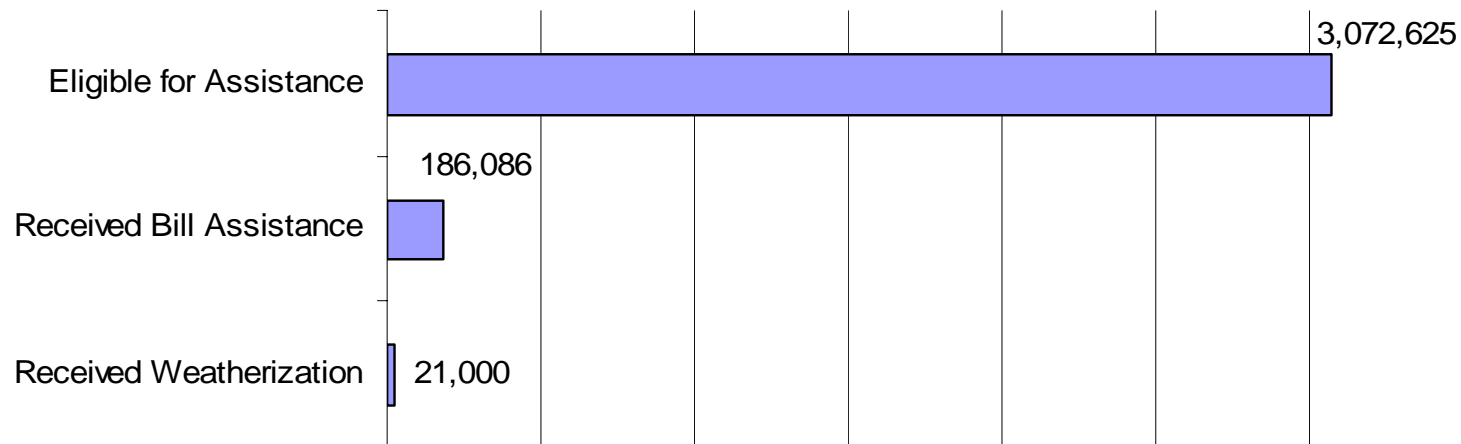


- Delivered to energy assistance recipients through workshops or one-on-one sessions by local agency staff
 - One-on-one sessions (30 minutes) offer greater opportunity to tailor education specifics of the home
 - Workshops (60 to 90 minutes) provide a community forum and offer more in-depth energy efficiency information
- Participants receive low cost measures kit
- Kits customized to meet sponsor and participant needs
- Participants asked to provide feedback on installed measures and actions taken
 - Additional incentive increases response rate

Why Energy Education?



2005 California Low Income Households and Services



Costs and Benefits of Energy Education

Program	Cost	Annual Savings	Payback (years)
Dayton Power and Light	\$ 126	\$ 71	1.77
Michigan Energy Education	\$ 265	\$ 118	2.25
City of Minneapolis	\$ 80	\$ 42	1.90
ECA of Philadelphia	\$ 44	\$ 65	0.68
Ohio Department of Development	\$ 69	\$ 34	2.03
Indiana EAP	\$ 75	\$ 150	0.50
Oregon REACH	\$ 200	\$ 83	2.41
Iowa Energy Wise	\$ 60	\$ 125	0.48
Washington Adult EE	\$ 121	\$ 33	3.67
South Carolina EW	\$ 50	\$ 106	0.47

Cost-Effectiveness of Energy Education



	First Year Cost/MMBtu	Measure Life	Levelized Cost/MMBtu
Traditional Weatherization	\$80.00	20 years	\$5.38
Commercial Lighting Retrofit	\$40.00	15 years	\$3.35
Energy Education	\$6.69	2+ years	\$1.71

